

LifeWorks

CAREER CHOICES FOR TODAY

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Questions about the HCC programs and services described in this publication should be directed to Student Development Services at 828.627.4500. Comments or questions about the publication itself can be directed to the HCC Marketing and Communications Office at 828.627.4521.

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HAYWOOD COMMUNITY COLLEGE 2011

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FOR TODAY



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On the cover:

HCC Electronic Engineering students,
Howard Townsend (left) and Josh Knight, at the
FLS Solar Farm in Canton, NC.

A fulfilling career move

Shane Baker, HCC 2011 Forest Management Technology graduate, realizes that sometimes to get where you want to go, you have to take the long way around. But the lessons learned along the way have been worth the journey. After high school, Baker was like many people in their late teens, he didn't know what he wanted to do. He attended UNC-Chapel Hill where he received a Bachelor's degree in journalism and mass communications with a specialization in graphic design.

He worked for five years at a print/advertising company, first in quality control then as a graphic designer. During this time, his dad was sick and when he died, Baker began asking himself what he wanted to do for the rest of his life. "I just didn't feel like I was where I wanted to be," he explains.

"I started reevaluating my whole life and started researching forestry. I knew what I needed was technical training. I had heard that a community college gave that kind of education. I also knew after attending a university that it was only a two year investment."

When Baker visited HCC, he liked it immediately. He felt at home. "I chose HCC because it is in the middle of national forests and parks. It is the perfect location for volunteering and internships. And HCC has a reputation for placing people in jobs."

Since Baker started school at HCC, he spends a lot of time volunteering. He volunteers with the US Forest Service in the Grandfather District where he worked in the timber and silvaculturist departments. He also volunteers with the Bent Creek Experimental Forest where he helps with studies on fire ecology and oak decline. This past summer, Baker had an internship with the US Forest Service Tusquitee Ranger District in Murphy. He worked in the recreation department where he was introduced to many aspects of the forest service such as law enforcement, timber marking, and trail maintenance.

"I realize what I needed to do to make the most of my time while at HCC. The instructors here go out of their way to help you. There are many resources here for students."

Why HCC should be your FIRST CHOICE

More and more, students are finding that choosing a Community College for the first two years of their college education is the best choice they could make. HCC is close to home and the quality education they receive is a fraction of the cost of a four-year institution. But while these are great reasons to choose HCC, perhaps the biggest reason is the small class sizes that allow students personal, one-on-one attention.

HCC faculty members care about you and strive to make sure you succeed. Again and again students comment on how their instructors go the extra mile in helping them understand concepts. And most are active in their field, whether they are artists, nurses, or cosmetologists themselves, they know the material they are teaching.

In addition, HCC classes are hands-on. This means actually applying what you learn allows students to understand it better.

"Hands-on is one of the most important things you can do," explains Teresia Cota, HCC Computer Information Technology

student. "Unless you do these concepts yourself, you can't get a true feel of how it works. You are learning the whole time."

The support available at HCC is outstanding. Through the college's Teaching and Learning Center, help is available for all students. The tutor program helps students understand coursework better while inspiring them to succeed and believe in themselves. Tutors give freely of their time to help students and recognize the importance of lifelong learning.

According to Susan Roberts, Instructor of Biology and The Teaching and Learning Center, "These tutors work with students one-on-one and not only impact their success in their classes but also become mentors that help to build skill sets in study skills and entrepreneurial skills they will carry with them into their future education and jobs."

In addition, the Math Emporium provides students exposure to lectures, hands-on assistance from instructors, and the ability to work at their own pace.

According to Valerie Bush, HCC 2010 Associate in Arts graduate, "My biggest challenge in coming back to college was math. I started out in developmental math but before I graduated, I finished pre-Calculus and Trigonometry. I was determined to succeed but I could never have made it without the help I received in the math lab and from the TLC." She is currently a student at Western Carolina University.

Another way student life is enhanced at HCC is completing internships, clinical experiences, field trips, and capstone projects. Each of these are vital to a well-rounded college education.

Tay Ravenell, HCC Fish and Wildlife Management student, says, "I really like the one-on-one face time I get with my instructors. They support me a lot. And the field trips and field experience makes a big difference in learning."

Making HCC your first choice is the best choice you can make. Why not save money while staying close to home? You won't believe the quality of education and one-on-one attention you will receive.

6 good reasons to choose HCC!

Close to Home

Small Class size

Affordable

Caring Faculty

Hands-On Experience

Tutoring & Math Emporium

HARNESSING the power of the Sun

Just stand outside on a hot sunny day and it doesn't take long to realize the power of the sun's rays. HCC Electronic Engineering students, Josh Knight and Howard Townsend built a solar concentrated dish to demonstrate how much heat can be generated from the sun. They have used the dish as a teaching tool at various events on campus and in our community. The team has used the concentrated energy to boil hot dogs and even fry fish at a recent festival. The dish is a great way to introduce people to the concept of using solar energy.

A solar panel, also known as a photovoltaic panel uses the sun's energy to produce electricity. The grid-like forms of the PV cells act as a sunlight collector and assist in the conversion of sun energy to electricity.

Solar energy is becoming more affordable and attainable with the advent of new technologies and governmental economic incentives. "Research and development, and increased manufacturing have reduced the cost and improved the efficiency of photovoltaic (PV) cells, and as a result decreased the retail price of electricity from PV systems from \$50 per Watt in the 1970s to approximately \$7 per Watt today," said Deborah Porto, Haywood Community College Department Chair of Advanced Technologies. This along with an increased public awareness of environmental concerns has generated an increased growth of photovoltaic (PV) systems generating electricity by both businesses and individual homeowners in the United States. "The technology is increasingly viewed as a partial solution to the growing global demand for energy and as a method of reducing the environmental problems associated with existing carbon-based energy," Porto stated.

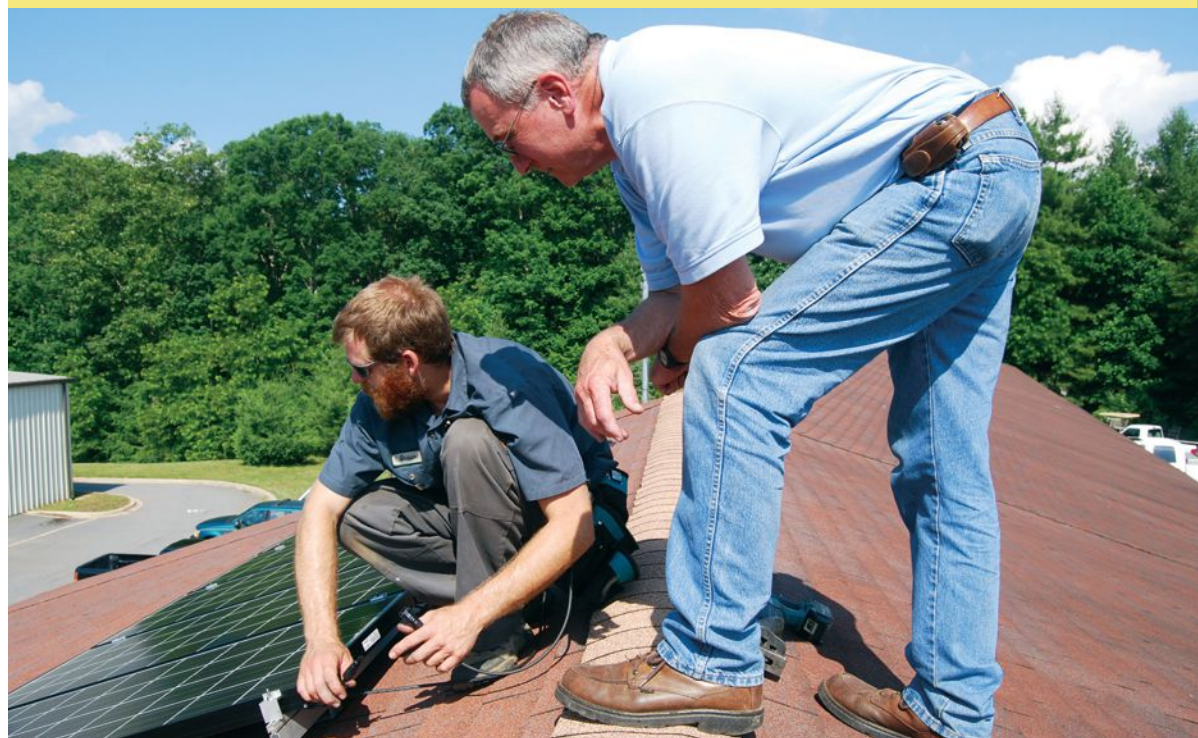
The increase of PV systems is creating a demand for a qualified PV workforce in technical sales, installation and maintenance. Porto explained, "In 2010, there were more than 93,000 solar workers in the U.S. The demand for solar workers is expected to rise 26% in the next 12 months." The North Carolina Sustainable Energy Association ranked North Carolina 14th in the United States for solar employment. The association also verified that there are "solar businesses" in all 100 counties of the state and despite the current recession, the green energy economy continues to grow.

HCC Electrical Technology instructor Steve Kirton, right, helps a student install solar panels on Building 1000 on campus.



PV RELATED OCCUPATIONS EXPECTED TO HAVE THE FASTEST GROWTH OVER THE NEXT YEAR ARE PHOTOVOLTAIC INSTALLERS, ELECTRICIANS WITH SPECIFIC EXPERIENCE IN SOLAR INSTALLATIONS, SALES AT WHOLESALE TRADE FIRMS, SALES REPRESENTATIVES OR ESTIMATORS AT INSTALLATIONS FIRMS AND ROOFERS WITH SPECIFIC EXPERIENCE IN SOLAR INSTALLATIONS.

—National Solar Jobs Census 2010, p. 13.





The FLS Solar Farm is located near Canton.
FLS photo

A growing industry

Haywood Community College is addressing the need for skilled workers in photovoltaic systems through both our curriculum and continuing education programs.

Curriculum

Three new Solar Photovoltaic certificates will be introduced in the 2011 fall semester-- Building Construction-Green Building-Solar Photovoltaics, Electrical /Electronics Technology-Solar Photovoltaic and Electronic Engineering Technology-Solar Photovoltaics. The certificates are designed to address photovoltaic technology as it would apply to each of the three disciplines. Following is a list of courses for each of the certificates.

BUILDING CONSTRUCTION TECHNOLOGY — SOLAR PHOTOVOLTAICS:

Fall Semester 1

- BPR 130 Blueprint Reading/Construction
- CAR 114 Residential Building Codes
- CST 111 Construction I
- ALT 120 Renewable Energy Technology

Spring Semester 1

- CST 112 Construction II
- ALT 220 Photovoltaic Systems Technology

ELECTRICAL/ELECTRONICS TECHNOLOGY — SOLAR PHOTOVOLTAICS:

Fall Semester 1

- ELC 112 DC/AC Circuit Analysis
- ELC 113 Basic Wiring
- ELC 118 National Electric Code
- ELC 119 NEC Calculations
- ELC 125 Diagrams and Schematics

Spring Semester 1

- ALT 220 Photovoltaic Systems Technology

ELECTRONIC ENGINEERING TECHNOLOGY — SOLAR PHOTOVOLTAICS:

Fall Semester 1

- ALT 120 Renewable Energy Technology
- ELC 128 Introduction of PLC's

- ELC 131 DC/AC Circuit Analysis
- MAT 121 Algebra/Trigonometry 1

Spring Semester 1

- ALT 220 Photovoltaic Systems Technology

All three of the curriculum certificates require students to take Photovoltaic Systems Technology in the spring semester. All three program groups will come together during this class to exchange ideas. This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology.

Continuing Education

The continuing education department at HCC offers short courses on green building, alternative energy and photovoltaics throughout the year based on the demand at the time. For instance, this spring the department offered a course in Solar Thermal Fundamentals. Students enrolled in the program are learning current trends in green building, available green technologies, advantages of efficient resource utilization and sustainable maintenance.



Spotlight of an Electronic Engineering Technology Student

Howard Townsend spent 5 years as a Marine and when he returned to civilian life, he realized that he needed to further his education to get the kind of job he was interested in. He wants to make a better life for his family. Howard is the father of two small boys and the husband of an HCC pre-nursing student. The Pisgah High graduate says that Haywood Community College was a natural choice for him because it was close to home and his entire family was on campus each day. "It is a challenge sometimes juggling family, college studies and work," he said. "But it will be worth it."



Howard graduated this spring with an Electronic Engineering Technology degree. "The instructors were really helpful. The learning experiences related to real world scenarios and better prepared me for a future career in the field," he said.

Howard was part of the Power Careers Program. He worked 36 hours a week for Progress Energy while he was attending HCC. To stay in the program, he had to have good evaluations, good grades and maintain a grade point average of 3.2 or higher. He has received several calls for interviews and has several good job prospects. Howard is looking forward to getting a permanent full-time job soon.

"NORTH CAROLINA'S EMERGING GREEN ENERGY ECONOMY CONTINUES TO PROVIDE DIVERSE EMPLOYMENT FOR PEOPLE OF ALL SKILL LEVELS AND EDUCATIONAL BACKGROUNDS IN EVERY REGION OF OUR STATE. THE EMERGING RENEWABLE ENERGY AND ENERGY EFFICIENCY INDUSTRIES HAVE EXPANDED RAPIDLY IN RECENT YEARS, DESPITE ONE OF THE LONGEST AND MOST SEVERE RECESSIONS IN OUR NATION'S HISTORY. FURTHER EXPANSION IS EXPECTED IN 2011, WHICH WILL BE DRIVEN BY INCREASING CONSUMER DEMAND, THE ON-GOING IMPLEMENTATION OF NORTH CAROLINA'S ENERGY POLICIES, AND ADDITIONAL VENTURE CAPITAL INFUSIONS."

—The North Carolina Sustainable Energy Association—2010 NC Renewable Energy and Energy Efficiency Industries Census.

Pros and Cons of Solar Photovoltaic

PROS

- Almost Zero maintenance.
- Free electricity generation.
- Cuts Energy Bills: Solar energy is free .
- It's Clean. Clean energy means you save the environment.
- Works even on cloudy days.
- Government incentives.

CONS

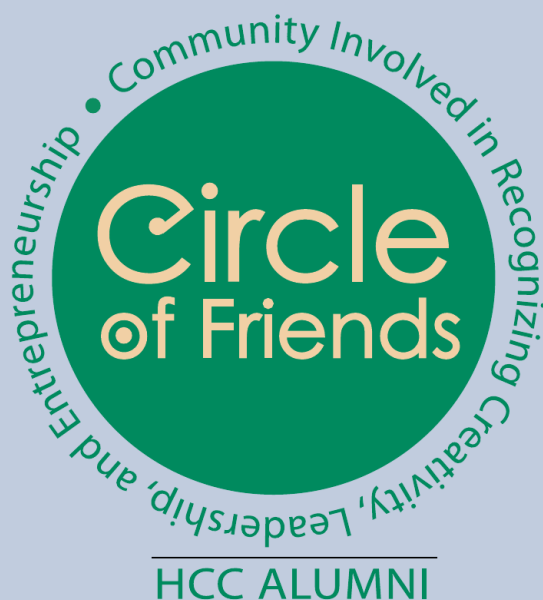
- Costly to install.
- Large roof area or appropriate space needed to install the panels.
- Dependent on intensity and duration of sunlight. A south-facing roof, which remains in direct sunlight throughout the day will generate the most energy.

New Certificates Available for Fall

Haywood Community College is connected to the world around us. We know what is happening in the job market and with career trends. This fall HCC is introducing many new certificate programs designed to teach relevant skills to get you on the job quicker. Now is the time for you to make a change for your future. Call 828.627.4500 or visit www.haywood.edu for more information.

NEW CERTIFICATES:

- Building Construction Technology-Solar Photovoltaic Concentration
- Business Administration-Office Software
- Collision Repair and Refinishing Technology
- Computer Integrated Machining
- Criminal Justice-Emergency Management
- Electrical/Electronics Technology-Solar Photovoltaic Concentration
- Electronic Engineering Technology-Engineering Design
- Electronic Engineering Technology-Solar Photovoltaic Concentration
- Healthcare Business Informatics for Computer Technology Professionals
- Healthcare Business Informatics for Health Professionals
- Horticulture Technology-Advanced
- Industrial Systems Technology-Corporate
- Low Impact Development-GIS Specialist
- Networking Technology-CISCO CCNA Preparation



Association Searching for HCC Alumni

Haywood Community College wants to know if you are an alumni of HCC. We are proud of our graduates and love to hear what has happened in their lives since they were here. Please keep in touch. Let us know of your accomplishments and milestones.

Circle of Friends, the HCC Alumni Association, would like for you to join their ranks. The members have helped promote special events on campus and hope to establish a scholarship fund for the children of HCC Alumni. You can e-mail your information to Persontoperson@haywood.edu or go to www.haywood.edu and fill out the information form online.

For more information about Circle of Friends, you may contact the Co-presidents, Jenny Carver at 828.627.4560, e-mail jcarver@haywood.edu or Cheryl Farrell at 828.627.4510, e-mail cfarrell@jhaywood.edu.

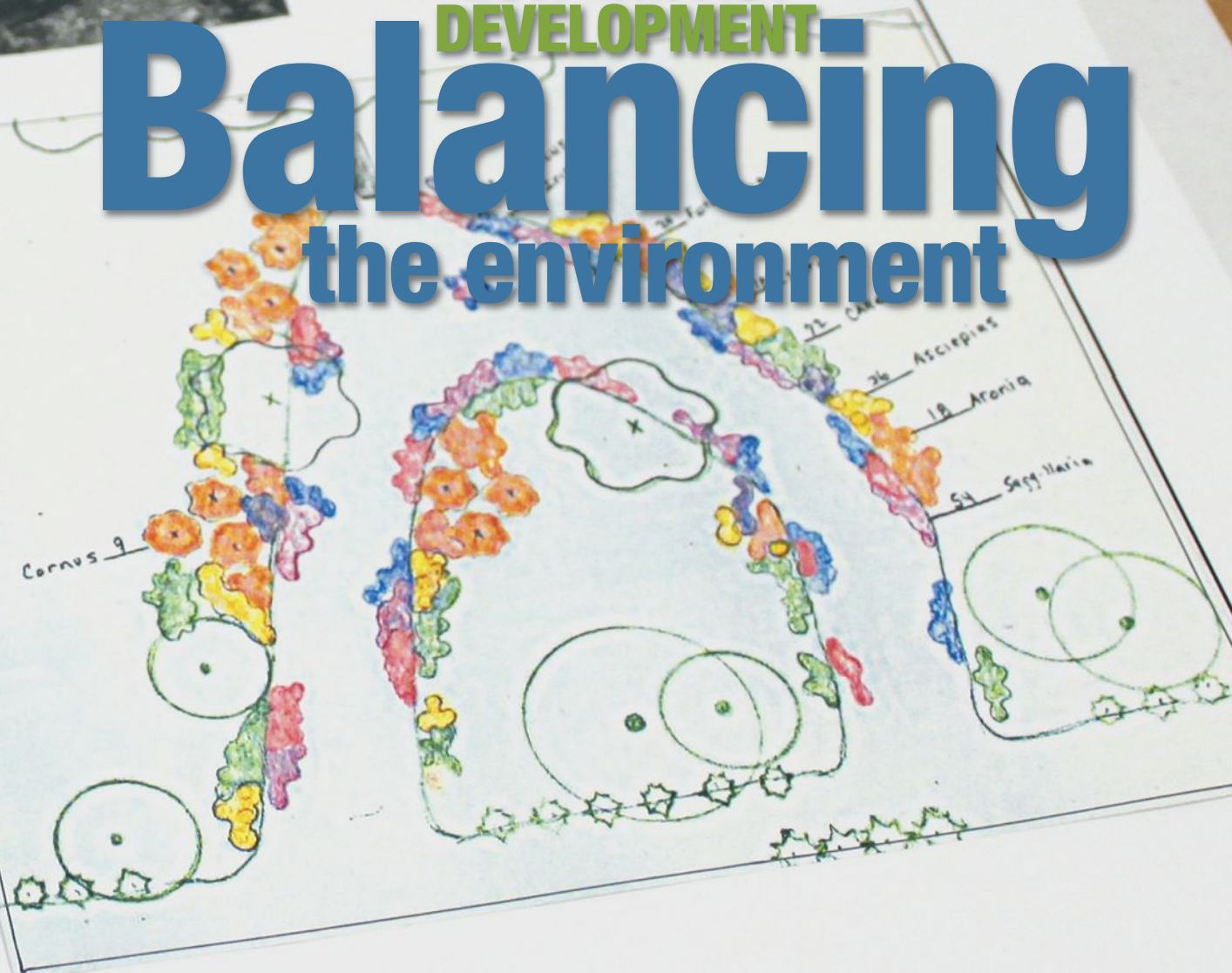
Haywood Community College
Clyde, NC

Contact Session
1:12-2:40 Spring 2011



LOW-IMPACT
DEVELOPMENT

Balancing the environment



Planting Design

Haywood Community College's Low Impact Development (LID) Program is a natural fit with the college's legacy of environmental stewardship. In addition, the college has a long range plan to transform the campus into a Living Laboratory of Sustainable Design.

LID encompasses a number of planning and design strategies that seek to balance the impact of development on the natural environment. LID also

"THERE'S BEEN A LONG TRADITION OF USING THE CAMPUS OF HAYWOOD COMMUNITY COLLEGE AS A LIVING LABORATORY FOR THE FORESTRY, HORTICULTURE, AND FISH AND WILDLIFE STUDENTS."

— *Tamara Graham, HCC Low Impact Development Lead Instructor*

incorporates strategies to conserve vegetation, prevent erosion and revegetate disturbed sites. Key aspects of LID include site analysis, inventory of natural resources, and in turn, identification of the most suitable area for new development.

LID also involves applying a palette of site specific strategies, or Best Management Practices (BMPs), that restore a site's hydrologic function by

slowing stormwater runoff and encouraging infiltration. BMPs mimic natural components of a natural watershed and can return hydrologic function of an individual site to natural, or predevelopment, levels.

According to Tamara Graham, HCC Low Impact Development Lead Instructor, "Careful planning, design and management of development in mountainous regions such as Western North Carolina are particularly critical because steep slopes are vulnerable to erosion and even failure with construction disturbance."

HCC's LID curriculum is designed to prepare students to serve as specialists in the analysis of land and in the preparation of LID recommendations. The program includes extensive field and case studies in addition to required internships and capstone projects that allow students to gain professional experience and apply their studies to a broad range of sustainable development projects in the community.

Examples of recent student field trips include: Drover's Road Preserve in Fairview, North Carolina, a 186 acre conservation subdivision consisting of 23 lots that protects 110 acres in a protected conservation easement; Rich Cove Landslide Site in Maggie Valley, the site of the February 2010 landslide; tour of Infill Development Projects in Asheville; and a Boat Tour of Lake Junaluska to observe the impact of stormwater erosion on the lake.

"Before entering the program, I was in real estate and saw a lot of development that didn't really go in an environmentally friendly direction," says Vicki Eastland, HCC LID student.

BENEFITS OF LOW IMPACT DEVELOPMENT

- Reduces runoff, pollution, flooding, stormwater management, building costs
- Protects water drinking supplies, fish and wildlife habitat from high flows
- Preserves and restores vegetation and trees
- Maintains wetlands water levels and stream flows
- Results in neighborhoods that are more attractive

LOW IMPACT ACTIONS EVEN YOU CAN TAKE:

- **Driveways** — create two tracks leaving grass in the middle, minimize length and width, use permeable pavers, reduce the use of curbs
- **Runoff from rooftops** — catch runoff in cisterns or rain barrels to use for flushing toilets or watering flowers and plants
- **Landscaping and lawns** — add rain gardens, maintain natural vegetation, compost and aerate

Branching out

Candace Stimson, HCC LID student, spent 10 years as a nurse helping heal people. Now she wants to help heal the environment. She calls herself an outdoors girl and she has decided to change her career to support the outdoor environment. The Haywood County resident has an organic farm and is embarking on an emerging field where she can make a difference to the beautiful natural environment we call home.

"As a LID student and future professional, I aim to design spaces that take into account the intricacies of our planet and its needs and to build living spaces that allow both humans and native inhabitants to thrive," Stimson explains. "The LID program encompasses the needs of a growing population with that of the natural world and conservation easements and protected open space are key parts of the overall LID plan."

Stimson has gained a lot of hands-on experience while a student at HCC. She completed an internship with the Southern Appalachian Highlands Conservancy. She worked on a project there to develop an invasive plant management strategy.

"Invasive species threaten their natural integrity," she explains. "By identifying and removing introduced plants, a balanced habitat can return for the native plants and animals. The inhabitants of our natural forests will remain healthier and more diverse."

In addition to the co-op, Stimson also worked on a capstone project at Lake Junaluska in partnership with the Army Corps of En-

gineers and a North Carolina Water Resources Grant. The project included the addition of 1/3rd of an acre of constructed wetlands on the shoreline of Lake Junaluska. She assisted the project engineer in a design that would daylight 100 feet of the partly piped Susie's Branch Stream.

Through this project, Stimson says she was able to incorporate many techniques she studied in the LID program including: restoring natural hydrology, conserving the native ecosystem, mitigate the effects of urbanization, all while helping educate classmates in HCC environmental science, environmental biology, and botany classes. The students helped Stimson with the plant installation from her design.

"Through this project, we created a wetlands area to help filter some of the storm water and increase biodiversity on the lake shore," Stimson explains. "When picking the plants for this area, I chose native plants so that they would be more adapted to this area, and I chose plants that have a lot of flowering to attract birds and butterflies and food sources for the native wildlife. Historically, there were wetlands in this area and they've done a lot of filling in of the wetland and building on them, and so by adding the wetlands here its actually just putting back what we've taken away in the past, so that's a good thing."

Stimson says she would like to work in Brownfields development or Infill Development after graduating from HCC.





Key concepts of LID

- **Prevent and maintain pollution** — increase efficiency and the life of infrastructure with correct and timely maintenance.
- **Conserve** — Maintain drainage patterns that occur naturally and preserve natural soils, trees, and vegetation.
- **Site design that is customized** — Through a combination of LID techniques, every commercial site or home can help protect the watershed.
- **Source Control** — To enable recharge in streams, wetlands, and groundwater; minimize runoff volume at the source. This can be implemented by collecting or directing runoff to vegetated areas where it can slowly infiltrate.

Students in HCC's Environmental Biology class installed a habitat garden and pocket wetlands on the college campus (above), which was designed by LID student Vicki Eastland for her capstone project.

"I'd like to be involved in helping to change the direction of some of our development strategies here in the area. The HCC LID program is very diverse. We've looked at environmental science, environmental biology. We've studied smart growth and planning for urban areas. We've studied GIS and GPS, the geospatial data-bases, and doing inventories with satellite-gathered information and mapping. We've touched on a lot of different aspects of development, and I think that the introduction to many aspects of development is a more diverse education."

As part of her capstone project, Eastland worked with HCC's Environmental Biology class to install a habitat garden and pocket wetlands on the college campus. "The goal is collecting water from the campus area before it goes into the storm water system. We actually want to collect it and treat it, and offer it a chance to infiltrate and get back into the water table to improve the water quality and try to take some of the strain off our stream. We actually have a native wetland across the road that a lot of the water from the campus gets into, so we're just trying to take some of what we've learned and put it to work here on campus and try to make things a little better here as well."

As in other Natural Resource programs, LID students utilize HCC's exceptional campus and the broader Western North Carolina region as a "living laboratory"

to study natural processes and our impact on them, and participate in planning and designing features that will enhance the campus' hydrologic function.

"There's been a long tradition of using the campus of Haywood Community College as a living laboratory for the forestry, horticulture, and fish and wildlife students," Graham explains. "The Low Impact Development program is following in the footsteps of those other departments and studying the way that the broader campus functions hydrologically, as well as looking at ways that we can use site specific strategies to enhance the hydrologic function."

Is LID for you?

Low Impact Development Students should have an interest in:

- **the outdoors**
- **technology**
- **planning**
- **natural resource conservation**
- **working with the public and professionals from many fields**

About 30 Haywood Community College Fish and Wildlife and Forestry students spent their free time earning an Awareness Certificate through the Leave No Trace program during spring semester. Trainers for this class were from Mast General Store.

According to the Leave No Trace website, the program is designed to assist outdoor enthusiasts with their decisions about how to reduce their impacts when they hike, camp, picnic, snowshoe, run, bike, hunt, paddle, ride horses, fish, ski or climb. The program strives to educate all those who enjoy the outdoors about the nature of their recreational impacts as well as techniques to prevent and minimize such impacts. Leave No Trace is best understood as an educational and ethical program, not as a set of rules and regulations.

"This is a nationally recognized certificate," explains HCC Forest Management Technology Instructor Bob Pinkston. "Students completed this class on a volunteer basis. It was not required as part of the program but is a great certification to have on their resume."

In addition, students will have the opportunity to become instructors by attending an overnight camping trip and have the option of taking the Wilderness First Responder course.

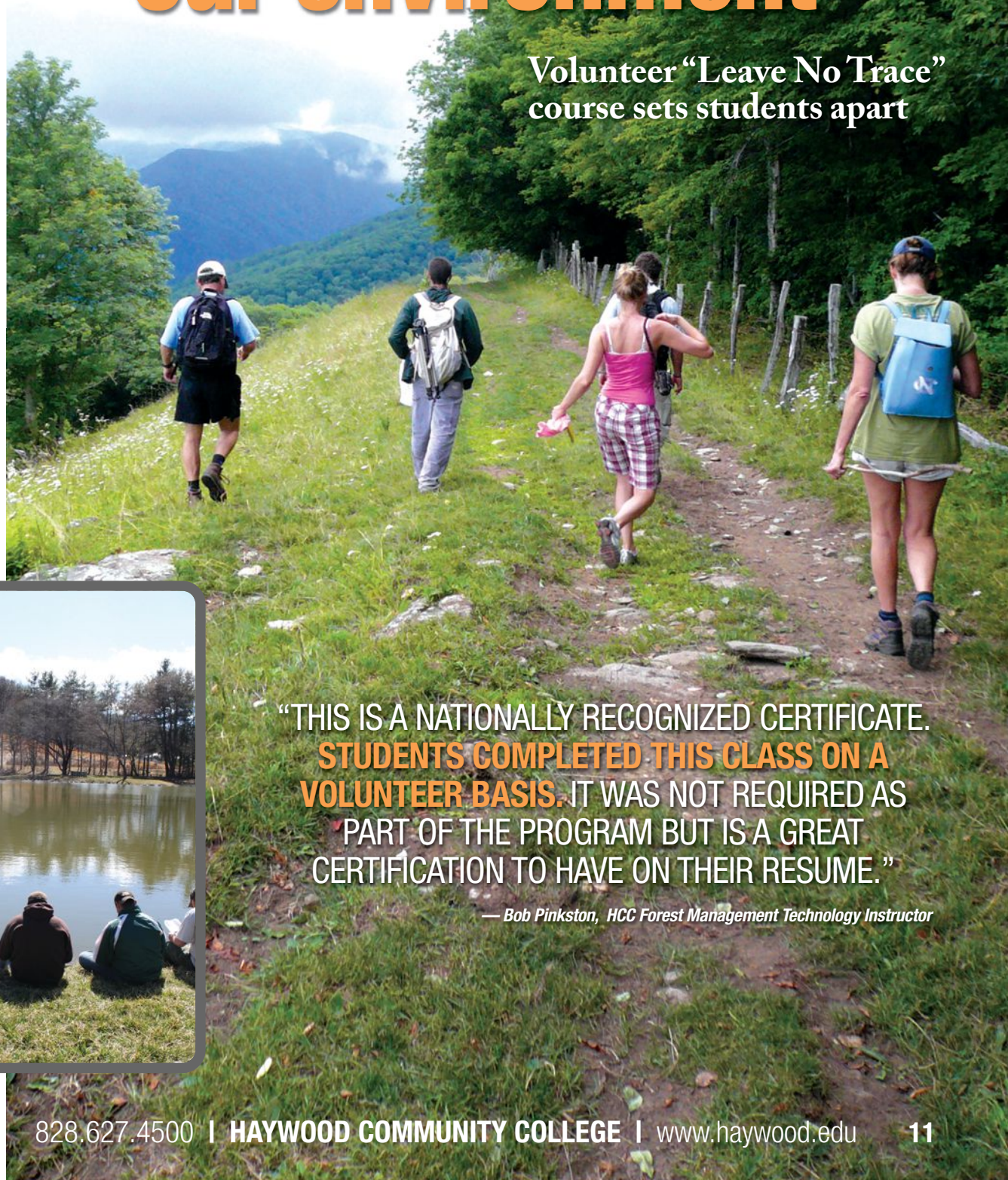
The Wilderness First Responder course trains participants to respond to emergencies in remote settings, equipping participants with the tools to make critical medical and evacuation decisions in remote locations.

Students at HCC are also involved in Project Learning Tree where they mentor students from pre-k through high school on understanding the environment and how to make informed decisions on environmental issues while instilling in students the commitment to take responsible action on behalf of the environment. HCC students are active in guiding the young students of HCC's Regional Center for the Advancement of Children.

For more information about HCC's Natural Resources Programs, please call 627-4500 or visit www.haywood.edu.

Natural Resources students taking care of our environment

Volunteer "Leave No Trace" course sets students apart



Haywood Community College Fish and Wildlife and Forest Management students earned an Awareness Certificate through the Leave No Trace program during spring semester. Pictured is the class learning the principles on the college campus.

"THIS IS A NATIONALLY RECOGNIZED CERTIFICATE. **STUDENTS COMPLETED THIS CLASS ON A VOLUNTEER BASIS.** IT WAS NOT REQUIRED AS PART OF THE PROGRAM BUT IS A GREAT CERTIFICATION TO HAVE ON THEIR RESUME."

— Bob Pinkston, HCC Forest Management Technology Instructor

No More Excuses

Distance Learning Courses Fit Even the Busiest Lifestyle

Haywood Community College has a strong tradition in providing the highest quality of education available to fit all learning styles and students from all walks of life. For this reason, the college has come a long way in fitting the needs of students who may not be able to come on campus for traditional face-to-face classes. As a result, HCC offers distance learning opportunities for several programs of study.

HCC distance learning students represent 85 of 100 counties in North Carolina, as well as several other states. In the 2009-10 year: roughly 66% of students took online courses; hybrid or online course sections represented roughly 27% of total course offerings; 48% of HCC's courses have an online presence; and 17 of the associate, diploma, or certificate programs are offered completely online.

While distance learning courses are not for everyone, they are excellent for responsible, disciplined students who have a busy lifestyle that may hinder them from setting aside time for traditional classes. They are often a perfect fit for those who have a job or family. Distance learning classes allow students to schedule school work whenever they can fit it into their life, often at hours when instructors are not on campus.

At HCC, distance learning classes integrate several concepts into the learning process. By incorporating podcasts, visual aids, statistics, discussion boards, and feedback, students find that all learning styles are served by the courses.

Through the use of Skype, HCC faculty can effectively communicate with students that are not able to come on campus. Instructors can troubleshoot or give

students extra help with a particular concept from a distance. Students are actually able to see the instructor's computer right on their own screen. Skype also enables instructors to view the student's computer.

Another alternative to distance learning and traditional courses, are hybrid courses. These courses are mostly online but require the student to come on campus a few times per semester. This allows students the opportunity to meet their instructor face-to-face while interacting with their classmates for discussion and sometimes hands-on activities to supplement their learning.

In addition, HCC's Continuing Education Department offers a wide variety of classes online through Ed2Go. Upgrade your skills, create a new career path or discover a new hobby with our instructor-led online courses. All courses run for six weeks. Courses are project-oriented and include lessons, quizzes, hands-on assignments, discussion areas, supplementary links, and 24-hour per day access.

Most often, students that are successful in Distance Learning courses possess the following traits:

- Comfortable using a computer for email, internet browsing, wordprocessing, and saving and locating files
- Self-motivation and self-discipline
- Possess good reading skills
- Can dedicate 9-12 hours per week to each course
- Always complete tasks
- Do well following written directions
- Do not procrastinate
- Communicate ideas in writing
- Willingness to ask for help
- Time management skills

WHAT'S AVAILABLE COMPLETELY ONLINE:

- Accounting (Associate, Diploma or Certificate)
- Business Administration (Associate, Diploma or Certificate)
- Criminal Justice Technology (Associate)
- Criminal Justice Technology - Emergency Management (Certificate) (New for Fall 2011)
- Early Childhood Education - Early Childhood Education Track (Associate, Certificate)
- Early Childhood Education - Infant/Toddler Track (Certificate)
- Early Childhood Education - Administration Track (Associate)
- Early Childhood Education - Special Education Track (Associate)
- Early Childhood Education - College Transfer Track (Associate)
- Forestry Technology - Natural Resources Specialist (Certificate)
- Low Impact Development - LID Specialist (Certificate)
- Low Impact Development - GIS Specialist (Certificate)
- Medical Office Administration (Associate, Diploma or Certificate)

Make a Smart Choice for Your Future

If you want to make a change in your career, now is the time to check out Haywood Community College's programs with over ten new certificate programs and over 45 programs of study. The new certificate programs are designed to teach you relevant skills to get a job quicker. With our affordable tuition and the fact that we are close to home, you will definitely be making a sensible and wise decision when you enroll at HCC.

HCC offers associate degrees, diplomas and certificates. Currently, HCC serves over 8,000 students every year—everyone from dual-enrolled high school students to senior adult continuing education students. There are options for everyone and every age. Be smart, choose a program today and you could be on your way to a brighter future.

CONTINUING EDUCATION COURSES AT HCC

HCC offers many courses through our Continuing Education program. From nurse aid or computer technology classes to notary or quilting classes, there is sure to be a course of special interest to you. Whether you are looking to upgrade your job skills in your present job, acquire skills for a new job, or just want to learn something for the fun of it, we have the classes for you. For more information about our many community and workforce development programs, call 627-4669.

WHAT WILL I GET PAID?

Individual salaries vary based on the region, the size of the employer, and the employee's education, experience, and skill level. You can research your potential salary at Salary.com, The Occupational Outlook Handbook at the U.S. Bureau of Labor Statistics web site (www.bls.gov) or by checking with professional organizations and local employers.

FOLLOWING IS A LIST OF
PROGRAMS AND AREAS OF
STUDY OFFERED BY HCC.
**CALL 828.627.4500 FOR
MORE INFORMATION OR
VISIT HCC ON THE WEB AT
WWW.HAYWOOD.EDU.**

A quick look

HAYWOOD COMMUNITY COLLEGE PROGRAMS



Joshua Janis, 2011 Professional Crafts-Wood graduate, is pictured with a promotional display of his business, Deep Roots Furniture.

Accounting

AAS, diploma, certificate. Careers in accounting firms, large and small corporations of varying types preparing financial statements, balance sheets, and tax returns. Available online or in classroom.

Associate in Arts

AA. This program is a college transfer program paralleling the freshman and sophomore years of a four-year college or university, for students who want to major in English, communications, foreign language, social science, education, fine arts, or humanities. Available online or in classroom.

Associate in General Education

AGE. Option I-individualized program, Option II-early childhood emphasis Birth-Kindergarten. This curriculum is designed for individuals wishing to broaden their education, with emphasis on personal interest, growth, and development. Available online or in classroom.

Associate in Science

AS. This program is a college transfer program, paralleling the freshman and sophomore years of a four-year college or university, for students who want to pursue four-year degrees in areas of study such as mathematics, engineering, computer science, the sciences, or professional programs that require a strong mathematics and science background.

Automotive Systems Technology

AAS, diploma, certificate, certificate in Diesel. Employment with dealerships and privately-owned garages diagnosing, servicing and repairing automobiles and light trucks. Graduates should be prepared to take the ASE exam.

Biotechnology (collaborative)

AAS. HCC and Asheville-Buncombe Technical Community College have a collaborative agreement wherein an HCC student can complete an AAS degree at A-B Tech. Graduates may find employment in various areas of industry and government, including research and development, manufacturing, sales, and customer service.

Building Construction Technology-Green Building

AAS, *diploma, certificate*. Certificate in Green Building Concentration, or certificate in Solar Photovoltaic Concentration. Graduates should qualify for entry level jobs in any general construction setting and be able to advance quickly to management positions such as supervisors, superintendents, project coordinators, project planners, estimators, and inspectors. This program emphasizes more energy-efficient and healthier environments.

Business Administration

AAS, *diploma, certificate, or certificate in Office Software*. Employment with governmental agencies, financial institutions and small to large businesses or industry. Available online or in classroom.

Collision Repair and Refinishing Technology

AAS, *diploma or certificate*. Entry-level employment opportunities are available in the automotive body and refinishing industry. Graduates may find employment with franchised independent garages or dealerships or they may become self-employed.

Computer Information Technology

AAS, *diploma, certificate*. Positions in computer systems maintenance and troubleshooting, support and training, and business applications design and implementation.

Computer-Integrated Machining

AAS, *diploma, or certificate*. Jobs in industrial and metalworking machinery and equipment manufacturing as computer numeric controlled (CNC) and conventional machine tool operators.

Cosmetic Arts

AAS, *diploma*. Employment opportunities are available in full-service salons, as skin/nail specialists, and as platform artists upon passing the State Board Exam.

Cosmetology Instructor

Certificate. Graduates of the program may be employed as cosmetology instructors in public or private education and business.

Criminal Justice Technology

AAS, (*certificate open only to high school students registered in the Concurrent Enrollment Program*), or *certificate in Emergency Management*. Positions within local, state, and federal law enforcement, corrections, and security as police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional office and loss/prevention specialist. Law Enforcement Agencies may require additional certificates or training academies. Available online or in classroom.

Early Childhood Education

AAS, *certificate, certificate in Administration, certificate in Special Education, certificate in Infant/Toddler Care*. Positions planning and implementing developmentally appropriate programs in preschools, public and private schools, recreational centers, Head Start Programs and school-age programs. Available online.

Electrical/Electronics Technology

AAS, *diploma, certificate, or certificate in Solar Photovoltaic Concentration*. Job opportunities in residential home wiring, troubleshooting electrical circuit problems, installing motors and controls in homes. Graduates will also be prepared to take the State electrical contracting license exam upon successful completion of the required apprenticeship.

Electronic Engineering Technology

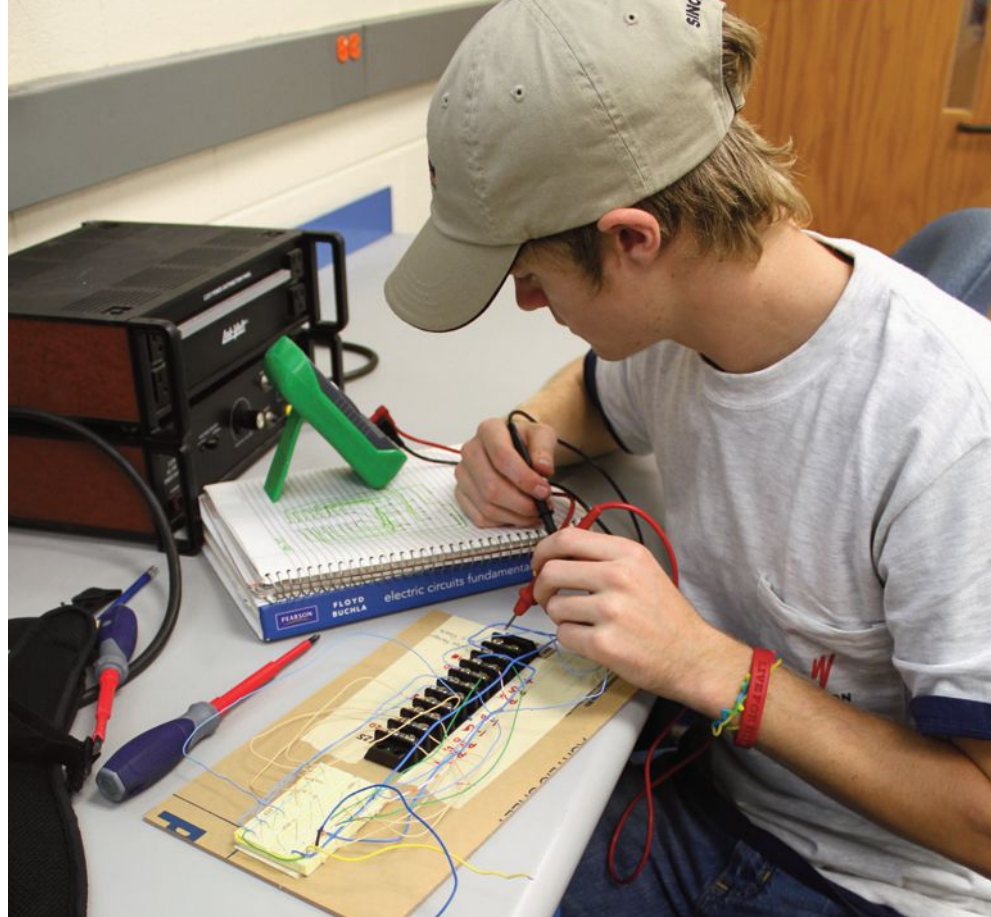
AAS, *certificate, certificate in Engineering Design, or certificate in Solar Photovoltaic Concentration*. Positions as engineering assistants or electronic technicians designing, building, installing, testing, troubleshooting, repairing, and modifying developmental and production electronic components, equipment and systems.

Entrepreneurship

AAS, *diploma, and certificate*. Graduates will be prepared to open their own small business. Students will learn concepts such as Innovation and Creativity, Marketing, Funding, and Entrepreneurship Issues.

Esthetics Instructor

Certificate. Graduates of the program may be employed as esthetics instructors in public or private education and business.



Esthetics Technology

Certificate. Knowledge and job skills needed to work in a full-service salon, as a platform artist, or to start your own business.

Fish and Wildlife Management Technology

AAS. Graduates should qualify as fish and wildlife management technicians with state and federal agencies and private enterprises involved with natural resource management.

Forest Management Technology

AAS or *certificate in Natural Resource Specialist*. Graduates should qualify for entry into positions as forest technicians with federal, state, and private forestry enterprises.

General Occupational Technology

AAS, *diploma, or certificate*. Graduates will become more effective workers, better qualified for advancements within their field of employment, and become qualified for a wide range of entry-level employment opportunities. Certificate available online or in classroom.

Healthcare Business Informatics

AAS, certificate for Computer Technology professionals, or certificate for Health Professionals. Graduates should qualify for employment as database/data warehouse analysts, technical support professionals, informatics technology professionals, systems analysts, networking and security technicians, and computer maintenance professionals in the healthcare field.

Horticulture Technology

Diploma, certificate, or Advanced Certificate. Jobs developing, installing and maintaining lawns, shrubs, trees and flowers for residential, commercial, and recreational properties. Also prepares graduates to start their own lawn maintenance business.

Industrial Systems Technology

AAS, diploma, certificate or Corporate certificate. Technician positions in manufacturing businesses maintaining heavy equipment.

Low Impact Development

AAS, certificate-GIS Specialist or certificate-LID Specialist. Graduates will be prepared to serve as specialists in the analysis of land and in the preparation of low impact development recommendations. Graduates will be able to successfully serve as liaisons between landscape architects and engineers and the construction companies implementing designs. Graduates will also be well versed in local and regional permitting issues and environmental concerns present and future.

Manicuring/Nail Instructor

Certificate. Graduates should be prepared to take the North Carolina Cosmetology State Board Manicuring Instructor Licensing Exam and upon passing be qualified for employment in a cosmetology or manicuring school.

Manicuring/Nail Technology

Certificate. Knowledge and job skills needed to work in a full-service salon or to start your own business.

Medical Assisting

AAS. Graduates of CAAHEP accredited medical assisting programs may be eligible to sit for the American Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

Medical Office Administration

AAS, diploma in Electronic Health Records, certificate. Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Networking Technology

AAS, diploma, certificate, or certificate in CISCO CCNA Preparation. Specialist positions planning, developing, and administering network and communication systems. Graduates should be prepared to sit for certification exams, which can result in industry-recognized credentials.

Nursing

AAS. Healthcare careers treating the sick and injured in hospitals, doctors' offices, clinics and public health agencies. Graduates of this program are eligible to apply to take the National Council of State Boards of Nursing Licensure Examination (NCLEX-RN).

Professional Crafts—Clay

AAS, diploma. Graduates will be able to open and operate their own pottery studio, work for existing pottery businesses, or transfer to a four-year degree program.

Professional Crafts—Fiber

AAS, diploma. Graduates will be able to open and operate their own weaving studio, work for an existing weaving business, or transfer to a four-year degree program.

Professional Crafts—Jewelry

AAS, diploma. Graduates will be able to start and operate their own jewelry studio, work for an established jeweler, or transfer to a four-year degree program.

Professional Crafts—Wood

AAS, diploma. Graduates should be prepared for self-employment, to fill existing positions in the craft industry, or transfer to a four-year degree program.

School-Age Education

AAS. Employment may be found as teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations. Available online.

Therapeutic Massage

Diploma. Employment may be found in hospitals, rehabilitation centers, health departments, home health, medical offices, nursing homes, spas, health and sports clubs, and private practices.

Welding Technology

AAS, diploma, or certificate. Positions with industrial machinery and equipment companies; plumbing, heating, air conditioning contractors, fabricated metal products and transportation equipment manufacturers.



Welcome Back the Bobcat!

After a year of discussion and deliberation, Haywood Community College has revived the Bobcat as the college's mascot. In the 1970's, the Bobcat was a familiar icon on campus when the college had a variety of sports teams. This year the Student Government Association launched a campaign to re-introduce the Bobcat as the college's mascot. The SGA purchased a new mascot suit. The Bobcat will make appearances on campus during events. During fall semester, students will play a part in naming the Bobcat.

Important Dates Fall 2011

EARLY REGISTRATION: BY APPOINTMENT IS UNDERWAY THROUGH JULY 8.

FINAL REGISTRATION: AUGUST 11, 9 A.M. TO 7 P.M.
AND AUGUST 12, 9 A.M. TO 4 P.M.

CLASSES BEGIN: AUGUST 15

CONTINUING EDUCATION: FALL BEGINS IN AUGUST.
CHECK SCHEDULES ONLINE.

CLASS SCHEDULES FOR BOTH
CURRICULUM AND CONTINUING
EDUCATION COURSES ARE ONLINE
AT **WWW.HAYWOOD.EDU**

INFORMATION:

Toll Free: 1.866 Go To HCC

Main Campus: 828.627.2821

Student Success Services: 828.627.4500

Financial Aid: 828.627.4756

Continuing Education: 828.627.4669

Bookstore: 828.565.4127

APPLY ONLINE AT **WWW.HAYWOOD.EDU** OR VISIT **WWW.CFNC.ORG**

